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**Week 2/Day 2 –**

**Continuation of Algebra on the ACT**

*This class will cover the format, directions, and question types that students should expect on the Algebra section of the ACT. The formulas and vocabulary used to understand Algebra will be covered in detail. This section accounts for about 15% of the ACT Math test, and so student’s understanding is imperative. There will be lots of practice Algebra problems and opportunity for any questions. This class will familiarize the student with the test and rid anxiety about expectations during the class and on the test.*

* **Materials:**
  + Whiteboard
  + Projector
  + Power Point slides (PPT #7) Inequalities
  + Worksheet: Basic Algebra Practice Problems, Algebra Practice Problems and Multistep Inequalities, Exponents, and Averaging and Rounding
* **The student will:**
  + Understand the basic content of the ACT section on *Algebra*
  + Begin to learn basic *Algebra* vocabulary and formulas
  + Practice *Algebra* (amounts for about 15% of ACT math)
* **Hour 1** – Continuation of *Algebra*
  + 10 minutes – News clip to be summarized as a class (details in ‘Overview’)
  + 25 minutes – Worksheet: Basic Algebra Practice Problems (Warm-up)
  + 25 minutes – Worksheet: Algebra Practice Problems 
    - Quadratic Formula
    - Radical and Rational Expressions
    - Inequalities and Absolute Value Equations
    - Sequences
    - Systems of Equations
    - Logarithms
    - Roots of Polynomials
    - Complex Numbers
    - Factorials

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* **Hour 2** –Inequalities
  + 20 minutes – PPT- Inequalities
    - Definition
    - Practice
  + 20 minutes – BREAK (according to prayer time)
  + 20 minutes – Worksheet: Multistep inequalities
    - Explain and discuss formulas and concepts
    - Discuss as a class to ensure understanding
* **Hour 3** – Practice (Review) and Closure
  + 20 minutes--Worksheet: Exponents
  + 20 minutes--Worksheet: Averaging and Rounding
    - Students should first work individually, then:
    - Have volunteers come to the board to work the problems
    - Have them show process not just the answer
    - Discuss as a class to ensure understanding
    - Reinforce formulas
  + Summarize and give students expectations for next session (anything the need to work on at night, and what will be taught in the next session) (details in ‘Overview’)
    - Have students recap the sections and time-restraints of the ACT
    - Have students review the vocabulary as a class